Docket No.: 050992.0202.02USCP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Bentwich, Itzhak Art Unit: 1635

App. No.: 10/709,577 Examiner: WOLLENBERGER, LOUIS V

Conf. No.: 3576 Title: SMALL MOLECULES MODULATING

Filing Date: May 14, 2004

ACTIVITY OF MICRO RNA

OLIGONULEOTIDES AND MICRO RNA TARGETS AND USES THEREOF

REPLACEMENT SEQUENCE LISTING UNDER 37 C.F.R. § 1.825(a)

Dear Sir:

In compliance with 37 C.F.R. § 1.52(e), please find submitted herewith a replacement Sequence Listing filed pursuant to 37 C.F.R. § 1.825(a).

SEQ ID NOS: 10068178-10068183 are new, support for which can be found at paragraph 0499 of the application as originally filed.

SEQ ID NOS: 10068186-10068189, 10068192-10068193, 10068306-10068309 are new, support for which can be found at paragraphs 0562-0582 of the application as originally filed.

SEQ ID NOS: 10068194-10068280 are new, support for which can be found at Figure 22 as originally filed.

SEQ ID NOS: 10068281-10068285 are new, support for which can be found at Figure 24A as originally filed.

SEQ ID NOS: 10068286-10068296 are new, support for which can be found at Figure 23A as originally filed.

SEQ ID NOS: 10068297-10068305 are new, support for which can be found at Figure 25 as originally filed.

SEQ ID NO: 10068310 is new, support for which may be found at Table 10 as originally filed. Table 10, lines 345905-345934 recite:

The GR5737 folded precursor RNA, herein designated GR FOLDED PRECURSOR RNA is naturally processed by cellular enzymatic activity into at least 82 separate GAM precursor RNAs GAM353392 precursor RNA, GAM353393 precursor RNA, GAM353394 precursor RNA, GAM353395 precursor RNA, GAM353396 precursor RNA, GAM353397 precursor RNA, GAM353399 precursor RNA, GAM353398 precursor RNA, GAM353399 precursor RNA, GAM353400 precursor RNA,

precursor RNA, GAM353402 GAM353401 precursor RNA. GAM353403 precursor RNA, GAM353404 precursor RNA, precursor RNA, GAM353406 GAM353405 precursor RNA, GAM353407 precursor RNA, GAM353408 precursor RNA, precursor RNA, GAM340661 GAM353409 precursor RNA, precursor RNA, GAM353411 GAM353410 precursor RNA, GAM353412 precursor RNA, GAM353413 precursor RNA, GAM353414 precursor RNA, GAM463778 precursor RNA, GAM415273 precursor RNA, GAM435659 precursor RNA, precursor RNA, GAM415274 GAM435660 precursor RNA, GAM415275 precursor RNA, GAM353415 precursor RNA, GAM353416 precursor RNA, GAM399339 precursor RNA, GAM353417 precursor RNA, GAM353418 precursor RNA, precursor RNA, GAM353420 GAM353419 precursor RNA, GAM353421 precursor RNA, GAM353422 precursor RNA, GAM353423 precursor RNA, GAM353424 precursor RNA, GAM353425 precursor RNA, GAM353426 precursor RNA, GAM353427 precursor RNA, GAM353428 precursor RNA, precursor RNA, GAM353430 GAM353429 precursor RNA, GAM353431 precursor RNA, GAM353432 precursor RNA, GAM463780 precursor RNA, GAM353433 precursor RNA, GAM353434 precursor RNA, GAM353435 precursor RNA, precursor RNA, GAM353437 GAM353436 precursor RNA, GAM353438 precursor RNA, GAM353439 precursor RNA, GAM353440 precursor RNA, GAM353441 precursor RNA, GAM353442 precursor RNA, GAM353443 precursor RNA, precursor RNA, GAM353445 GAM353444 precursor RNA, GAM353446 precursor RNA, GAM353447 precursor RNA, GAM353448 precursor RNA, GAM353449 precursor RNA, GAM353450 precursor RNA, GAM353451 precursor RNA, precursor RNA, GAM399341 GAM353452 precursor RNA, GAM353453 precursor RNA, GAM353454 precursor RNA, GAM353455 precursor RNA, GAM353456 precursor RNA, GAM353457 precursor RNA, GAM353458 precursor RNA, GAM353459 precursor RNA, GAM353460 precursor RNA, GAM353461 precursor RNA and GAM353462 precursor RNA. herein schematically represented by GAM1 **FOLDED** PRECURSOR RNA through GAM3 FOLDED PRECURSOR RNA. Each GAM folded precursor RNA is a hairpin-shaped RNA segment, corresponding to GAM FOLDED PRECURSOR RNA of Fig. 8.

As shown in Table 1 below, the following SEQ ID NOS, all of which were disclosed in the application as originally filed, represent the sequences of the following GAMS, which are all products of the processing of GR5737 (SEQ ID NO: 10068310):

Table 1

GAM	Genomic positions from chromosome 14, plus strand (according to Human Genome Sequence hg 18, NCBI Build 36.1, March 2006)
353396	100558142 - 100558228
353399	100561081 - 100561193
353405	100562873 - 100562957
353406	100563193 - 100563275
353410	100565724 - 100565805
415273	100576159 - 100576245
435659	100576864 - 100576950
415274	100582536 - 100582618
415275	100583402 - 100583490
353416	100584748 - 100584839
399339	100585662 - 100585742
353422	100588529 - 100588609
353424	100590396 - 100590478
353432	100591348 - 100591414
463780	100591501 - 100591582
353446	100596663 - 100596765
353450	100598122 - 100598210
353455	100601368 - 100601495
353456	100601543 - 100601624
353457	100601684 - 100601763
353459	100602007 - 100602078
353462	100602810 - 100602890
	353396 353399 353405 353406 353410 415273 435659 415274 415275 353416 399339 353422 353424 353422 463780 353446 353450 353455 353456 353457 353459

The GAMS of Table 1 are located on the plus strand of human chromosome 14 as indicated in Table 1. Therefore, SEQ ID NO: 10068310 (GR5737) represents the sequence of the GAMS listed in Table and the intervening sequences that are located in between the GAMS of Table 1 at the following genomic locations:

Table 2

Genome positions of intervening sequences on chromosome 14, plus strand
100558229-100561080
100561194-100562872
100562958-100563192
100563276-100565723
100565806-100576158
100576246-100576863
100576951-100582535
100582619-100583401
100583491-100584747
100584840-100585661
100585743-100588528
100588610-100590395
100590479-100591347
100591415-100591500
100591583100596662
100596766100598121
100598211-100601367
100601496-100601542
100601625-100601683
100601764-100602006
100602079-100602809

SEQ ID NO: 10068310 (GR5737) thus in total represents the plus strand of human chromosome 14 at positions 100558142 to 100602890 (See Table 1).

Application No.: 10/709,572 Docket No.: 050992.0202.02USCP

In view of the new sequences submitted herewith being supported by the application as originally filed, Applicant respectfully submits that the replacement Sequence Listing contains no new matter in accordance with 37 C.F.R. § 1.825(a).

Respectfully submitted,

POLSINELLI SHALTON FLANIGAN SUELTHAUS PC

Dated: March 21, 2007 By: /Teddy C. Scott, Jr., Ph.D./

Teddy C. Scott, Jr., Ph.D. Registration No.: 53,573 Customer No.: 37808

POLSINELLI SHALTON FLANIGAN SUELTHAUS PC

180 N. Stetson Ave., Suite 4525 Chicago, IL 60601 312.819.1900 (main) 312.873.3613 (direct) 312.602.3955 (efax) tscott@polsinelli.com